



	MD (Pathology & Mi	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist		
NAME	: Mrs. AARTI			
AGE/ GENDER	: 35 YRS/FEMALE	PATIEN	T ID	: 1624730
COLLECTED BY	:	REG. NO)./LAB NO.	: 012409250034
REFERRED BY	:	REGIST	RATION DATE	: 25/Sep/2024 11:21 AM
BARCODE NO.	: 01517682	COLLEC	TION DATE	: 25/Sep/2024 11:25AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOR	FING DATE	: 25/Sep/2024 01:28PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCRINOL	OGY	
	ТНУ	ENDOCRINOL ROID FUNCTION T		
	E (T3): SERUM	(ROID FUNCTION T 0.43		0.35 - 1.93
by CMIA (CHEMILUMII	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSA	(ROID FUNCTION T 0.43 Y)	EST: TOTAL ng/mL	
by CMIA (CHEMILUMII THYROXINE (T4): SE by CMIA (CHEMILUM	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSA	(ROID FUNCTION T 0.43	EST: TOTAL	0.35 - 1.93 4.87 - 12.60
THYROXINE (T4): SE by CMIA (CHEMILUM IMMUNOASSAY) THYROID STIMULA	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSA I RUM	(ROID FUNCTION T 0.43 Y)	EST: TOTAL ng/mL	
by CMIA (CHEMILUMII THYROXINE (T4): SE by CMIA (CHEMILUM IMMUNOASSAY) THYROID STIMULAT by CMIA (CHEMILUM	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSA IRUM INESCENT MICROPARTICLE FING HORMONE (TSH): SERUM INESCENT MICROPARTICLE	(ROID FUNCTION T 0.43 Y) 1.42^L	EST: TOTAL ng/mL µgm/dL	4.87 - 12.60

overproduction(hyperthyroidism) of T4 and/or T3.

overproduction (hyperthytotalism) of 14 and/or 15.						
CLINICAL CONDITION	Т3	T4	TSH			
Primary Hypothyroidism:	nary Hypothyroidism: Reduced		Increased (Significantly)			
Subclinical Hypothyroidism: Normal or Low Normal		Normal or Low Normal	High			
Primary Hyperthyroidism:	rimary Hyperthyroidism: Increased		Reduced (at times undetectable)			
Subclinical Hyperthyroidism: Normal or High Normal		Normal or High Normal	Reduced			

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levles in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

6.39 - 17.66

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROXI	NE (T4)	THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (µIU/mL)	
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	



7 Days - 3 Months

0.36 - 2.59

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7 Days - 3 Months

7 Days - 3 Months

0.58 - 11.00

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. AARTI AGE/ GENDER : 35 YRS/FEMALE **PATIENT ID** :1624730 **COLLECTED BY** REG. NO./LAB NO. :012409250034 **REFERRED BY REGISTRATION DATE** : 25/Sep/2024 11:21 AM : **BARCODE NO.** :01517682 **COLLECTION DATE** : 25/Sep/2024 11:25AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 25/Sep/2024 01:28PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name			Value	Unit		Biological Reference interval
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECON	/IMENDATIONS OF TSH LI	EVELS DURING PREC	GNANCY (µIU/mL)		
1st Trimester				0.10 - 2.50		
2nd Trimester				0.20 - 3.00		
3rd Trimester			0.30 - 4.10			

INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1. Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3.Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8. Pregnancy: 1st and 2nd Trimester

*** End Of Report **





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